

**TRICON INDUSTRIES INCORPORATED**  
ELECTROMECHANICAL DIVISION

*Contact Assemblies & Switches*

2325 Wisconsin Avenue, Downers Grove, Illinois 60515-4076 312/964-2330 Telex 27-0064

June 30, 1986

Mr. Thomas G. McSwiggin, P.E.  
Illinois Environmental Protection Agency  
Water Pollution Control Permit Section  
2200 Churchhill Road  
Springfield, IL 62706

Dear Mr. McSwiggin:

RE: Permit Number 1984-EB-1508-1

Please be advised that we wish to revise our permit to coincide with our new operating requirements. Currently, we have a permit which allows for a maximum of 500 gallons per hour of cyanide bearing rinse waters, and 850 gallons per hour of non-cyanide and treated cyanide bearing rinse waters. Our permit allows for a maximum of 8500 gallons per day.

We request the following revisions:

- 1.) Total daily maximum of 8500 gallons to increase to 10,000 gallons.
- 2.) Hourly maximum flow for cyanide bearing waste to remain at 500 gallons per hour. Cyanide bearing wastes would be generated up to a maximum of six hours per day or 3,000 gallons per day.
- 3.) The pH adjust system is operated by proportional control systems. This system can adequately handle a volume of 950 gallons per hour. We request that we be allowed to operate rinses through that system as follows:

Average volume--400 gallons per hour  
Maximum volume--950 gallons per hour

Mr. T. G. McSwiggin, P.E.  
Illinois Environmental Protection Agency

June 30, 1986

Current waste analysis shows that we are well within EPA requirements for the electroplating and metal finishing standards. The results of recent tests are as follows:

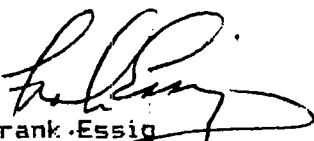
<u>Date</u>	<u>Cyanide</u>	<u>Nickel</u>	<u>Copper</u>	<u>Silver</u>	<u>pH</u>
05/06/86	.03	3.1	.79	LT .05	8.30-8.95
05/16/86	.02	.66	.59	.08	8.36-9.03
05/29/86	.01	1.3	.81	LT .05	8.31-8.86

LT = Less than

The reason for this request is that actual usage needs to be increased for a period of 4-6 hours on occasion. Once again, our plating operation and the corresponding cyanide rinses only operate 5-8 days per month and only run for 4-6 hours per day.

We would appreciate your review of this request. Thank you for your assistance.

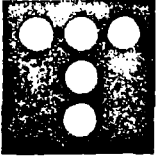
Sincerely,



Frank Essig  
Safety Director

jrd

cc: Larry Cox, Manager  
Downers Grove Sanitary District



# TRICON INDUSTRIES INCORPORATED

ELECTROMECHANICAL DIVISION

Contact Assemblies & Switches

2325 Wisconsin Avenue, Downers Grove, Illinois 60515-4076 312/964-2330 Telex 27-0064

September 16, 1985

217 782 0610

Mr. Thomas G. McSwiggin, P.E.  
Illinois Inviromental Protection Agency  
Water Pollution Control Permit Section  
2200 Churchhill Road  
Springfield, IL 62706

RE: Permit Number 1984-EB-1508

Dear Mr. McSwiggin:

Please be advised that we wish to revise our permit to coincide with our normal operating requirements. Currently we have a permit which allows for a maximum of 90 gallons per hour of cyanide bearing rinse waters and 505 gallons per hour of non-cyanide and treated cyanide bearing rinse waters. Our permit allows for a maximum of 8500 gallons per day.

We request the following revisions:

- 1.) Total daily maximum of 8500 gallons to remain in tact.
- 2.) Hourly maximum flow for cyanide bearing waste to increase to 500 gallons per hour. Cyanide bearing wastes would be generated up to a maximum of six hours per day or 3,000 gallons per day.

NOTE: The original permit application indicated a maximum design flow of 90 gallons. However, all flow lines are 6" in diameter. Retention time and the 493 gallon capacity treatment pit can adequately handle the 500 gallons per hour. Therefore, an error was made on the original application. We only require 6 hours per day of rinse water application which would be 3,000 gallons per day.

- 3.) The pH adjust system is operated by proportional control systems. This system can adequately handle a volumn of 50 gallons per hour. We request that we be allowed to operate rinses through that system as follows:

Mr. T. G. McSwiggin, P.E.  
Ill. Invironmental Protection Agency

September 16, 1985

Average volumn--350 gallons per hour  
Maximum volumn--850 gallons per hour

Current waste analysis shows that we are well within EPA requirements for the electroplating and metal finishing standards. The results of recent tests are as follows:

<u>Date</u>	<u>Cyanide</u>	<u>Nickel</u>	<u>Copper</u>	<u>Silver</u>	<u>pH</u>
8/26/85	.012	1.9	1.6	.15	8.31-8.77
8/27/85	N/A	.92	1.9	.10	8.13-8.38
8/28/85	.076	.20	1.6	.09	8.15-8.89
8/29/85	N/A	.23	1.2	.05	8.05-8.87
8/30/85	N/A	.16	.98	.08	8.32-8.72

N/A: Not applicable, no wastes generated

The reason for this request is that actual usage needs to be increased for a period of 4-6 hours on occasion. Once again, our plating operation and the corresponding cyanide rinses only operate 5-8 days per month and only run for 4-6 hours per day.

We would appreciate your review of this request. Thank you for your assistance.

Sincerely:

Frank Essig  
Safety Director

FE:jđ

cc: Larry Cox, Manager  
Downers Grove Sanitary District

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL PERMIT  
CORRECTED COPY

PERMIT NO.: 1984-EB-1508-1

DATE ISSUED: November 13, 1985

FINAL PLANS, SPECIFICATIONS, APPLICATION  
AND SUPPORTING DOCUMENTS

LOG NUMBERS: 3177-85

PREPARED BY: Frank Essig, Safety Director

SUBJECT: TRICON INDUSTRIES -- Pretreatment System for Electroplating Rinsewaters  
(Downers Grove Sanitary District)

PERMITTEE TO OPERATE

Tricon Industries, Inc.

2325 Wisconsin

Downers Grove, Illinois 60515

Supplemental permit is hereby granted to the above designated permittee to operate water pollution control facilities, which were previously approved under Permit #1984-EB-1508 dated December 13, 1984. These facilities have been revised as follows:

Description of water pollution control facilities shall be as follows:

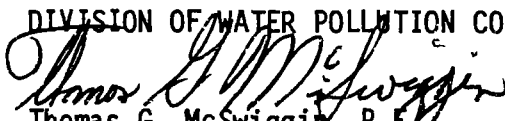
Cyanide treatment consisting of a 493 gallon capacity concrete pit and controls for treating a design maximum flow of 500 gal. per hour of cyanide bearing rinse waters, pH adjustment consisting of a 441 gal. capacity concrete pit and controls for treating a design maximum flow of 850 gallons per hour of non-cyanide and treated cyanide bearing electroplating rinse waters, a 132 gal. neoprene lined steel inspection tank, a 1,897 gal. concrete pit for heavy metals settling and all necessary appurtenances with discharge of a maximum 8,500 gal. per day (0 BOD PE) to the Downers Grove Sanitary District sewer system and wastewater treatment plant.

The expiration date of this permit is December 1, 1989.

All Special Conditions on the original permit issued are also applicable to this permit unless specifically deleted or revised in this permit.

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

TGM:EK:sd/2459e/13  
cc: EPA - Region 2  
Permits  
Records

DIVISION OF WATER POLLUTION CONTROL  
  
Thomas G. McSwiggin, P.E.  
Manager, Permit Section

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL PERMIT

217 782 0610

PERMIT NO.: 1985-E0-3177

DATE ISSUED: October 25, 1985

FINAL PLANS, SPECIFICATIONS, APPLICATION  
AND SUPPORTING DOCUMENTS

LOG NUMBERS: 3177-85

PREPARED BY: Frank Essig, Safety Director

SUBJECT: TRICON INDUSTRIES -- Pretreatment System for Electroplating Rinsewaters  
(Downers Grove Sanitary District)

PERMITTEE TO OPERATE

Tricon Industries, Inc.

2325 Wisconsin

Downers Grove, Illinois 60515

Supplemental permit is hereby granted to the above designated permittee to operate water pollution control facilities, which were previously approved under Permit #1984-EB-1508 dated December 13, 1984. These facilities have been revised as follows:

Description of water pollution control facilities shall be as follows:

Cyanide treatment consisting of a 493 gallon capacity concrete pit and controls for treating a design maximum flow of 500 gal. per hour of cyanide bearing rinse waters, pH adjustment consisting of a 441 gal. capacity concrete pit and controls for treating a design maximum flow of 505 gallons per hour of non-cyanide and treated cyanide bearing electroplating rinse waters, a 132 gal. neoprene lined steel inspection tank, a 1,897 gal. concrete pit for heavy metals settling and all necessary appurtenances with discharge of a maximum 8,500 gal. per day (0 BOD PE) to the Downers Grove Sanitary District sewer system and wastewater treatment plant.

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TGM:EK:sd/2459e/13

cc: EPA - Region 2

Permits  
Records

DIVISION OF WATER POLLUTION CONTROL

*Thomas G. McSwiggin*  
Thomas G. McSwiggin, P.E.  
Manager, Permit Section

*ED*  
*Kain*

For I. A. Company Name Tricon Industries, Inc. SIC Code(s) No.: 3699

B. Organization of Business (~~sole proprietorship, partnership, or~~ corporation)

1. If sole proprietorship, give name of owner and assumed name, if different than answer to IA above.

2. If partnership, give names of general partners and assumed name, if different than answer to IA above.

3. If corporation, give state in which incorporated and the name and address of registered agent.

Delaware

Kirkland & Ellis

200 E. Randolph

Chicago, IL 60601

C. Business Address:

Street 2325 Wisconsin Avenue

City Downers Grove Zip 60515

D. Location of Permitted Discharge:

Street 2325 Wisconsin Avenue

City Downers Grove Zip 60515

E. The name of the person completing this application: (authorized agent)

Name Frank Essig Title Safety Director Phone 964-2330

F. Number of Employees: (average annual number of employees at permitted facility on all shifts)

210

G. Schedule of operation: (include process operations and clean-up schedules, and state as an approximate annual average)

Average annual days per week of operation 5-1/2

H. Time and duration of discharge to sanitary sewer: (state as an approximate annual average)

Discharge occurs from 12:00 A.M./~~XXX~~ to 11:59 ~~XXX~~/P.M.

Circle the days of the week that discharge occurs: S M T W T F S

Section II. Wastewater Flow Rates

A. The following wastewater flow rates to the sanitary sewers are to be provided by the Industrial User and must be physically measured unless other verifiable techniques are approved by the Downers Grove Sanitary District due to cost or non-feasibility.

Maximum Daily Flow (Gals/Day): (report the largest daily flow expected throughout the year for all discharges)

8500

Annual Daily Average flow (Gals/Day): (report an average of the work day flows for one 12 month period, including all discharges)

5400

Describe any weekly, monthly or seasonal flow variations: NONE

B. Process wastewater discharge is: Continuous (X) Batch ( )

If a batch discharge, what volume are the batches and how many per day?

Volume \_\_\_\_\_ Number per day \_\_\_\_\_

C. Using information from water bills, sanitary sewer bills and your plant records, show where the water used for the individual processes listed comes from and is discharged to in gallons per day. By totaling the figures you should have a water balance, with the volume received equaling the volume discharged.



Water Used for:	Water Supply		Water Discharged to		
	Gals/Day	Source (1)	DCSD Gals/Day	Other Gals/Day	Discharged to (2)
Sanitary	11851-13786	A	X		
Process	5400-8500	A	X		
Cooling	0-40	A	X		
Lawn Sprinkling	X	A			
Scrubber Water (air pollution control equipment)					
Boiler					
Other (3)					
Total (Gals/Day)	17291-19226	A	X		

Notes: (1) Enter the appropriate code letter indicating the water source: a) Downers Grove Water Department  
b) Westmont Water Department c) Private Well d) Recycled or Reclaimed Water e) Stormwater

(2) Enter the appropriate code indicating the discharge point: a) Surface Waters b) Storm Sewer  
c) Product d) Evaporation e) Hauled by Wastewater Hauler

(3) Describe Other:

#### D. Environmental Permits

Identify all environmental permits held by this facility.

Permitting Agency

EPA

ILL EPA

ILL EPA

Permit Type

Generator

Generator

Pretreatment

Permit Number

0430300017

ILDO 05084124

1984-EB-1508

## Section III. Raw Materials and Chemicals

- A. Give technical and common names of raw materials and chemicals that are used in the manufacturing or other processes, which can be discharged to the sanitary sewer. In the case of proprietary compounds, provide the manufacturer's name.

Information to complete this section can be taken from self-monitoring data, material safety handling sheets, suppliers or materials, raw material labels, and various trade organizations.

Technical Name	Common Name	Manufacturer's Name
<u>Techni-Silver E2</u>	<u>Silver Plating Solution</u>	<u>Technic, Inc.</u>
	<u>Copper Plating Solution</u>	<u>Technic, Inc.</u>
<u>Enplate Ni 416S</u>	<u>Nickel Plating Solution</u>	<u>Enthone, Inc.</u>
<u>Orosene 80</u>	<u>Gold Plating Solution</u>	<u>Technic, Inc.</u>
<u>Potassium Cyanide</u>	<u>Potassium Cyanide</u>	<u>Technic, Inc.</u>
(please attach any additional information)		

- B. Are any of the following pollutants present or suspected of being present in the wastewater discharged to the sanitary sewer? If yes, indicate which ones by checking the appropriate box(es).

<input type="checkbox"/> Acrolein (2)	<input type="checkbox"/> 2-Chloroethyl Vinyl Ether (19)
<input type="checkbox"/> Acrylonitrile (3)	<input type="checkbox"/> 1,2 - Dichlorobenzene (25)
<input type="checkbox"/> Benzene (4)	<input type="checkbox"/> 1,3 - Dichlorobenzene (26)
<input type="checkbox"/> Toluene (86)	<input type="checkbox"/> 1,4 - Dichlorobenzene (27)
<input type="checkbox"/> Ethylbenzene (38)	<input type="checkbox"/> Hexachloroethane (12)
<input type="checkbox"/> Carbon Tetrachloride (6)	<input type="checkbox"/> Hexachlorobutadiene (52)
<input type="checkbox"/> Chlorobenzene (7)	<input type="checkbox"/> 1,2 - Dichloropropane (32)
<input type="checkbox"/> 1,2 - Dichloroethane (10)	<input type="checkbox"/> 1,3 - Dichloropropene
<input checked="" type="checkbox"/> 1,1,1-Trichloroethane (11)	<input type="checkbox"/> Methylene Chloride (44)
<input type="checkbox"/> 1,1 - Dichloroethane (13)	<input checked="" type="checkbox"/> Methyl Chloride (45)
<input type="checkbox"/> 1,1 - Dichloroethylene (29)	<input type="checkbox"/> Methyl Bromide (46)
<input type="checkbox"/> 1,1,2 - Trichloroethane (14)	<input type="checkbox"/> Bromoform (47)
<input type="checkbox"/> 1,1,2,2 - Tetrachloroethane (15)	<input type="checkbox"/> Dichlorobromomethane (48)
<input type="checkbox"/> Chloroethane (16)	<input type="checkbox"/> Trichlorofluoromethane (49)

\*\* NOTE: These items are used at Tricon, but we do not suspect them to be present in our effluent as we have a Solvent Management Plan.

☐ Dichlorodifluoromethane (50)  
☐ Chlorodibromomethane (51)  
☐ Tetrachloroethylene (85)  
☐ Trichloroethylene (87)  
☐ Vinyl Chloride (88)  
☐ 1,2, -Trans-Dichloroethylene (30)  
☐ Bis (Chloromethyl) Ether (17)  
☐ Fluorene (80)  
☐ Fluoranthene (39)  
☐ Chrysene (76)  
☐ Pyrene (84)  
☐ Phenanthrene (81)  
☐ Hexachlorobenzene (9)  
☐ 1,2,4 - Trichlorobenzene (8)  
☐ Bis (2-Chloroethoxyl) Methane (43)  
☐ Naphthalene (55)  
☐ 2-Chloronaphthalene (20)  
☐ Isophorone (54)  
☐ Nitrobenzene (56)  
☐ 2,4 - Dinitrotoluene  
☐ 2,6 - Dinitrotoluene (36)  
☐ 4 - Bromophenyl Phenyl Ether (41)  
☐ Bis (2-Ethylhexyl) Phthalate (66)  
☐ Di-N-Octyl Phthalate (69)  
☐ Dimethyl Phthalate (71)  
☐ Diethyl Phthalate (70)  
☐ Di-N-Butyl Phthalate (68)  
☐ Acenaphthylene (77)  
☐ Acenaphthene (1)  
☐ Butyl Benzyl Phthalate (67)  
☐ Phenol (65)  
☐ 2-Nitrophenol (57)

☐ 4-Nitrophenol (58)  
☐ 2,4 - Dinitrophenol (59)  
☐ 4,6 - Dinitro -O-Cresol (60)  
☐ Pentachlorophenol (64)  
☐ Anthrlene  
☐ Benzo (A) Anthralene  
☐ Benzo (B) Fluroanthene  
☐ Benzo (K) Fluroanthene (75)  
☐ Benzo (A) Pyrene (73)  
☐ Indeno (1,2,3-C,D) Pyrene (83)  
☐ Dibenzo (A,H) Anthralene  
☐ Benzo (G,H,I) Perylene (79)  
☐ 4-Chlorophenyl Phenyl Ether (40)  
☐ 3,3-Dichlorobenzidine (28)  
☐ Benzidine (5)  
☐ Bis (2-Chloroethyl) Ether (18)  
☐ 1,2 - Diphenylhydrazine (37)  
☐ Hexachlorocyclopentadiene (53)  
☐ N-Nitrosodiphenylamine (62)  
☐ N-Nitrosodimethylamine (61)  
☐ N-Nitrosodi-N-Propylamine (63)  
☐ Bis (2-Chloroisopropy) Ether (42)  
☐ P-Chloro-M-Cresol  
☐ 2-Chlorophenol (24)  
☐ 2,4 - Dichlorophenol  
☐ 2,4,6 - Trichlorophenol (21)  
☐ 2,4 - Dimethyphenol (34)  
☐ Heptachlor (100)  
☐ Alpha - Endosulfan (95)  
☐ Beta-Endosulfan (96)  
☐ Endosulfan-Sulfate (97)

☐ Alpha-BHC (102)  
☐ Beta-BHC (103)  
☐ Gamma-BHC (104)  
☐ Delta-BHC (105)  
☐ Aldrin (89)  
☐ Dieldrin (90)  
☐ 4,4 -DDT (92)  
☐ 4,4 - JDE (p,p-DDX)  
☐ Endrin (98)  
☐ Antimony (114)  
☐ Arsenic (115)  
☐ Beryllium (117)  
☐ Cadmium (118)  
☐ Chromium (119)  
☒ Copper (120)  
☐ Lead (122)  
☒ Total Cyanides (121)  
☐ Xylenes  
☐ Heptachlor Epoxide (101)  
☐ Chlordane (91)  
☐ Toxaphene (113)  
☐ PCB-1242 (Arochlor 1242) (106)  
☐ PCB-1254 (Arochlor 1254) (107)  
☐ PCB-1221 (Arochlor 1221) (108)  
☐ PCB-1232 (Arochlor 1232) (109)  
☐ PCB-1248 (Arochlor 1248) (110)  
☐ PCB-1260 (Arochlor 1260) (111)  
☐ PCB-1016 (Arochlor 1016) (112)  
☐ 2,3,7,8 - Tetrachlordibenzo-P-Dioxin  
(TCDD) (129)  
☐ Endrin Aldehyde (99)  
☐ Mercury (123)  
☒ Nickel (124)  
☐ Selenium (125)  
☒ Silver (126)  
☐ Thallium (127)  
☐ Zinc (128)  
☐ Asbestos (116)  
☐ Alkyl Epoxides

☒ Sulfuric Acid  
☒ Hydrochloric Acid  
☒ Nitric Acid  
☐ Hydrofluoric Acid  
☐ Radioactive Nuclides  
☐ BOD Greater than 350 mg/L  
☐ COD Greater than 1000 mg/L  
☐ Chromic Acid  
☐ Phosphoric Acid  
☐ Acetic Acid  
☐ Temperature Greater than 122<sup>o</sup>F or 50<sup>o</sup>C  
☐ TSS Greater than 350 mg/L  
☐ Fats, Oil, and Grease (FOG) Greater than 100 mg/L  
☐ Sodium Hydroxide  
☐ Potassium Hydroxide  
☐ pH less than 5.5  
☐ pH greater than 9.0

## C. Wastewater Analysis

Attach analytical laboratory reports for the sample(s) and parameters requested in the application form cover letter. These reports must include the analytical laboratory's name, address, telephone number, sampling dates, sample types (i.e., composite, grab, automatic or manual composite, etc.), a description of the sampling location, and the identity of the parameters with concentrations and units.

## Section IV. Process Activities

- A. List the manufacturing and/or service processes which occur at your facility and the volume of flow discharged from each process

Process Activity	Flow (Gals/Day)
Cyanide Destruct	0-3,000
pH Adjust	1500-8500

Section V. Certified Wastewater Treatment Operator and Wastewater Treatment System  
(complete this section only if process wastewater is pretreated)

- A. Certified wastewater treatment operator: (provide the name(s) of person(s) certified by the Illinois Environmental Protection Agency as Industrial (Class K) Wastewater Works Operator for the pretreatment system in the facility for which this application is made.

Name	Frank Essig	Title	Safety Director
Name	Gary Kaupie	Title	Plater
Name		Title	
Name		Title	

- B. Time and duration of pretreatment system operation:

The system operates from: 6:30 A.M. / ~~XXX~~ to 12:00 ~~XXXXXX~~ Midnight  
Circle the days of the week in which operation occurs: S M T W T F S  
The pretreatment system discharge is: Continuous (X) Batch ( )

For batch treatment systems, what volumes are discharged per batch and how many batches per day?

\_\_\_\_\_

2. Have plans of the pretreatment system been submitted to and approved by the Downers Grove Sanitary District?

Date submitted: 12/84

Date approved: \_\_\_\_\_

Section VI. Statement of Compliance

A. Based on the information in this permit application, and to the best of your knowledge, is the wastewater discharged from this facility able to meet the applicable pretreatment standards on a consistent basis?

Yes X No \_\_\_\_\_, Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

B. If not, is additional operation and maintenance (O & M) and/or additional pretreatment of the wastewater required to meet the applicable pretreatment standards and requirements?

Yes \_\_\_\_\_ No \_\_\_\_\_, Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

C. If the answer to Section VI (B) is yes, the Industrial User must submit as part of this application, a compliance schedule or work plan showing the shortest schedule for the User to provide such O & M and/or pretreatment. The compliance schedule given in this application will become attached to and be part of the Industrial Discharge Permit. The completion date for the construction and operation facilities required shall not be later than the compliance date established for the applicable pretreatment standard. In no case shall any increment of progress in the submitted compliance schedule or work plan exceed six (6) months.

Not later than fourteen (14) days following each date in the schedule and the final date for compliance, the User shall submit a progress report to the District including, as a minimum, whether or not it complied with the increment of progress to be met on such date, if not, the date on which it expects to comply with this increment of progress, the reason for the delay, and the steps taken by the User to return construction to the schedule established. In no event shall more than six (6) months elapse between progress reports to the District.

## Section VII. Plant Layout Diagram

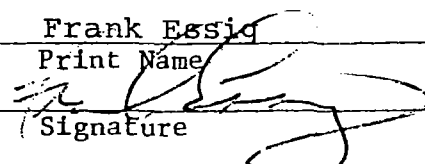
- A. Attach a diagram of your facility's property indicating the location of each building on the premises. For each building, show the location of water meters, sewage flow meters, sanitary sewer lines and manholes, storm sewer manholes and streets.

## Section VIII. Certification

- A. This application must be reviewed and certified by a principal executive officer of the discharger as to the accuracy of the contents. If pretreatment is provided, the certification must be signed also by a qualified professional who is familiar with the treatment system.

I (we) declare that I (we) have examined this Industrial Wastewater Discharge Permit Application and certify that to the best of my (our) knowledge and belief, it is true, correct and complete.

Principal Executive Officer:

Frank Essig  
\_\_\_\_\_  
Print Name  
  
\_\_\_\_\_  
(Signature)

Safety Director  
\_\_\_\_\_  
Title  
9/17/85  
\_\_\_\_\_  
Date

Qualified Professional:

\_\_\_\_\_  
Print Name  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title  
\_\_\_\_\_  
Date

It is the responsibility of the Industrial User to be aware of and in compliance with all federal, state and local rules, regulations, laws and ordinances as they pertain to the discharge of wastewaters generated at the User's fac

CORRECTED COPY  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL PERMIT

PERMIT NO.: 1984-EB-1508

DATE ISSUED: December 13, 1984

FINAL PLANS, SPECIFICATIONS, APPLICATION  
AND SUPPORTING DOCUMENTS

LOG NUMBERS: 1508-84

PREPARED BY: Scientific Control Laboratories, Inc.

SUBJECT: TRICON INDUSTRIES, INC. -- Pretreatment System for Electroplating  
Rinsewaters (Downers Grove Sanitary District)

PERMITTEE TO CONSTRUCT, OWN AND OPERATE

Tricon Industries, Inc.

2325 Wisconsin

Downers Grove, Illinois 60515

Permit is hereby granted to the above designated permittee(s) to construct and/or operate water pollution control facilities described as follows:

Cyanide treatment consisting of a 493 gallon capacity concrete pit and controls for treating a design maximum flow of 90 gal. per hour of cyanide bearing rinse waters, pH adjustment consisting of a 441 gal. capacity concrete pit and controls for treating a design maximum flow of 505 gallons per hour of non-cyanide and treated cyanide bearing electroplating rinse waters, a 132 gal. neoprene lined steel inspection tank, construction only of a 1,897 gal. concrete pit for heavy metals settling and all necessary appurtenances with discharge of a maximum 8500 gal. per day (0 BOD PE) to the Downers Grove Sanitary District sewer system and wastewater treatment plant.

This Operating Permit expires on December 1, 1989.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

SPECIAL CONDITION 1: This permit does not authorize operation of the heavy metals settling stage of the treatment system. Should sampling show that treatment for heavy metals removal is needed then a supplemental operating permit shall be applied for and a written permit issued by IEPA prior to operation.

Continued on Page 2

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

TGM:GS:jab/476E/1-3

cc: EPA - Region 2

Scientific Control Laboratories, Inc.

Downers Grove S.D.

Industrial Unit

Records Unit

DIVISION OF WATER POLLUTION CONTROL

  
Thomas G. McSwiggin, P.E.  
Manager, Permit Section



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL PERMIT

PERMIT NO.: 1984-EB-1508

DATE ISSUED: December 13, 1984

FINAL PLANS, SPECIFICATIONS, APPLICATION  
AND SUPPORTING DOCUMENTS

LOG NUMBERS: 1508-84

PREPARED BY: Scientific Control Laboratories, Inc.

SUBJECT: TRICON INDUSTRIES, INC. -- Pretreatment System for Electroplating  
Rinsewaters (Downers Grove Sanitary District)

SPECIAL CONDITION 2: The operation of the pretreatment facilities must be under the direct and active field supervision of a certified industrial treatment plant operator in accordance with the State of Illinois Rules and Regulations, Title 35, Subtitle C, Chapter 1, Part 312.

SPECIAL CONDITION 3: The issuance of this permit does not relieve the permittee of the responsibility of complying with any limitations and provisions imposed by the Downers Grove Sanitary District.

SPECIAL CONDITION 4: All sludges and plating solutions generated on site shall be disposed of at a site and in a manner acceptable to the Agency.

SPECIAL CONDITION 5: The issuance of this permit does not relieve the permittee of the responsibility of complying with 35 Ill. Adm. Code, Part 307 and/or the General Pretreatment Regulations (40 CFR 403) and any guidelines developed pursuant to Section 301, 306, or 307 of the Federal Clean Water Act of 1977. The guidelines developed for the Metal Finishing Point Source Category (40 CFR 413 Subpart A and 433.15) limits the Pollutants from facilities discharging less than 10,000 gpd as follows:

Compliance Date: June 30, 1984

<u>Pollutant</u>	<u>1-Day Max (mg/l)(2)</u>	<u>4-Day Avg (mg/l)(2)</u>
Cyanide (amenable)	5.0	2.7
Lead	0.6	0.4
Cadmium	1.2	0.7
TTO(1)	4.57	-

Compliance Date: February 15, 1986

	<u>1-Day Max (mg/l)(2)</u>	<u>Monthly Avg (mg/l)(2)</u>
Cyanide (total)	1.2	0.65
Copper	3.38	2.07
Nickel	3.98	2.38
Chromium (total)	2.77	1.71
Zinc	2.61	1.48
Lead	0.69	0.43
Cadmium	0.69	0.26
Silver	0.43	0.24
TTO(1)	2.13	-

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(1) TTO is the total toxic organics, which is the summation of all quantifiable values greater than 0.01 mg/l for the specified toxic organics in the regulation.

(2) These numbers do not reflect a reduction in the numerical limitations due to the contributing flow of sanitary wastes, non-contact cooling water, and other dilutional wastewaters not regulated by the limitations. If removal credits are given as per 40 CFR 403.7, the parameters may be modified accordingly.